

SONY

3-754-871-21 (1)

MicrocassetteTM -corder

M-405/507V/607V

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Sony Corporation ©1992 Printed in Japan

Owner's Record

The model number is located at the rear and the serial number is located in the battery compartment. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

This instruction manual covers M-405, M-507V and M-607V. Their differences are shown in the table below.

	VOR switch	TAPE COUNTER	BATT indicator	REC/BATT indicator	MIC jack	Hand- strap
M-405	—	—	—	—	—	—
M-507V	•	—	•	—	—	•
M-607V	•	•	—	•	•	•

•: provided or supplied —: not provided or not supplied

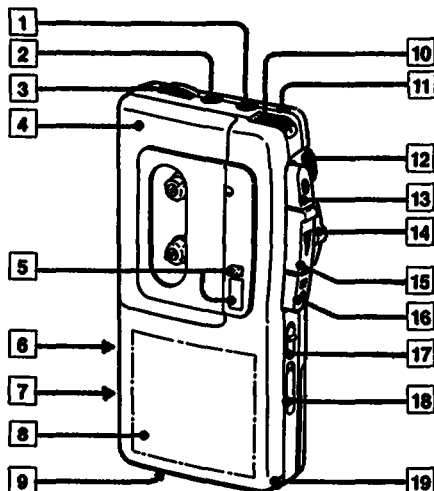
Features

- Compact size and easy operation
- The FAST PB (fast playback) function is convenient to listen to the tape contents rapidly and economizes the playback time.
- VOR (Voice Operated Recording) system (M-507V/607V only) economizes on tapes, batteries and your time.
- You can start recording directly from the playback mode. This function is convenient to correct a previously recorded portion.
- Automatic shut-off mechanism (in the recording/playback mode only)
- The BATT (M-507V) or REC/BATT (M-607V) indicator indicates when to replace the batteries.

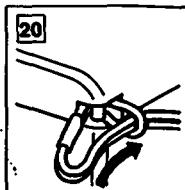
What is VOR (Voice Operated Recording) system?

With this system, recording starts only when sound is picked up and stops automatically when sound is no longer detected.

Parts Identification



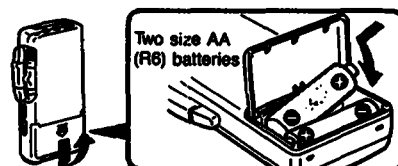
The illustration of M-507V



- | | |
|--|---|
| 1 EAR (earphone) jack | 11 BATT (battery) indicator (M-507V only) |
| 2 MIC (microphone) - PLUG IN POWER jack (M-507V only) | REC/BATT (recording/battery) indicator (M-507V only) |
| 3 ∇ VOL (volume) control | 12 PAUSE switch |
| 4 Cassette holder | 13 $\bullet$ (recording) button |
| 5 TAPE COUNTER and counter reset button (M-507V only) | 14 $\ll$ CUE-fast forward/ $\gg$ REVIEW-rewind control |
| 6 TAPE SPEED (2.4cm/1.2cm) switch (left side) | 15 $\triangleleft$ (playback) button |
| 7 $\diamond$ $\diamond$ DC IN 3V (external power input) jack (left side) | 16 $\Rightarrow$ (eject/stop) button |
| 8 Speaker (built-in) | 17 FAST PB (fast playback) switch |
| 9 Battery compartment (rear) | 18 VOR (Voice Operated Recording) (OFF/L/H) switch (M-507V/607V only) |
| 10 MIC (built-in microphone) | 19 Handstrap catch |
| | 20 Handstrap (supplied with M-507V/607V only) |

Power Sources

Operating with Batteries

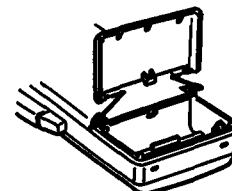


When to replace the batteries

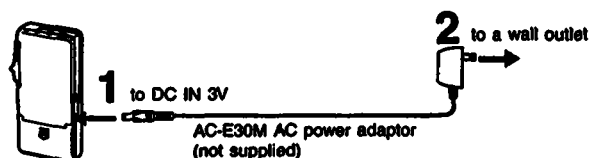
When the batteries become weak, the BATT (M-507V only) or REC/BATT (M-607V only) indicator will glow faintly and the sound will become distorted or unstable. In this case, replace both batteries with new ones. For battery life, see "Specifications".

Note on the battery case

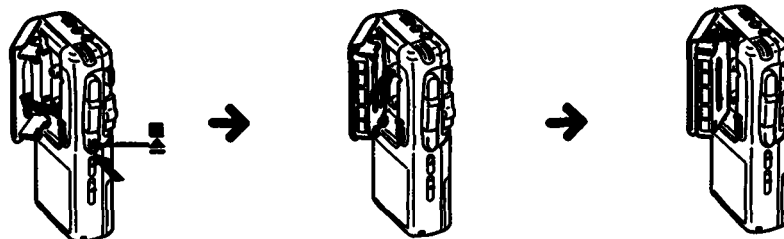
If the battery compartment lid is detached by an accidental drop, excessive force etc., attach it as illustrated.



House Current Operation

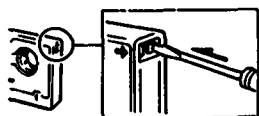


Cassette Insertion

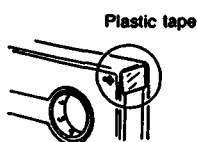


Notes on Microcassette

To protect cassettes from accidental erasure
Break out and remove the tab.



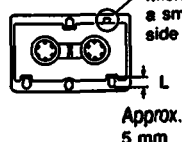
To reuse a cassette
Cover the slot with plastic tape.



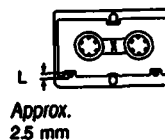
This unit uses only standard Microcassettes. Non standard cassettes cannot be used because their "L" dimension (see illustration) is different.

Standard

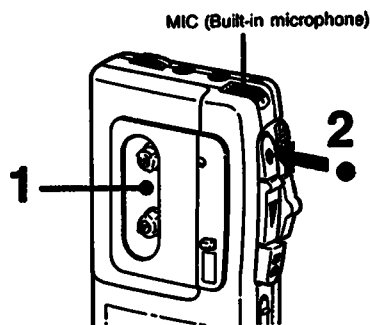
Only standard Microcassettes have a small indentation on side A.



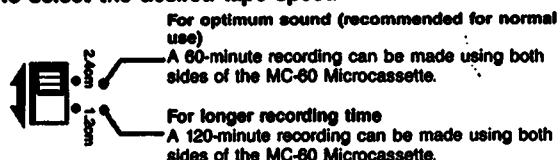
Non standard



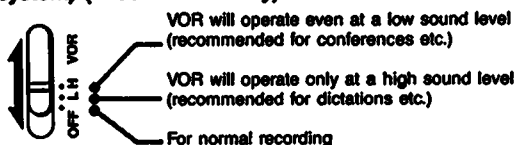
Recording with the Built-in Microphone



To select the desired tape speed



Recording only when the sound is picked up (VOR system) (M-507V/607V only)



Quick review function

Simply push up the ◀◀CUE/▶▶REVIEW control towards ▶▶REVIEW while recording.
When the control is released, playback will begin for review of the recorded material.

To monitor the recording sound

You can monitor the recording sound through the earphone (not supplied). (You cannot adjust the monitor volume.)

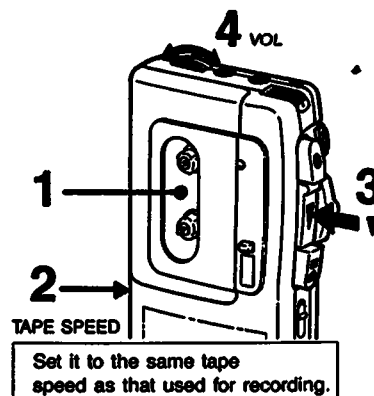
To stop the tape

Press the ▶■ button.

To stop the tape momentarily in the recording or playback mode

Slide the PAUSE switch in the direction of the arrow.
The pause indicator (orange) will appear.

Playback



To advance the tape rapidly, slide the ◀◀CUE/▶▶REVIEW control to ◀◀CUE.

To rewind the tape rapidly, slide the ◀◀CUE/▶▶REVIEW control to ▶▶REVIEW.

To skip over or repeat a certain portion during playback

Keep the ◀◀CUE/▶▶REVIEW control pushed up or down with the ◀ button depressed. When the ◀◀CUE/▶▶REVIEW control is released, playback will begin.

To start recording directly from the playback mode

During playback, simply depress the ● button and the unit will immediately change to the recording mode.

To increase the playback speed

Slide the FAST PB switch in the direction of the arrow. The playback speed will be increased.
To return to the original speed, slide the FAST PB switch to the original position.

When the earphone is plugged in

The speaker will be automatically disconnected.

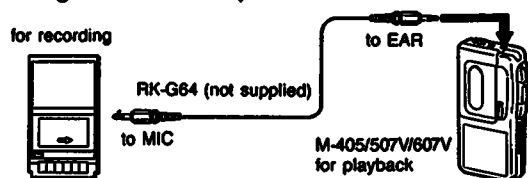
At the end of the tape

In the recording or playback mode, the tape stops at the end of the tape and the locked button will be released automatically (Automatic shut-off mechanism).

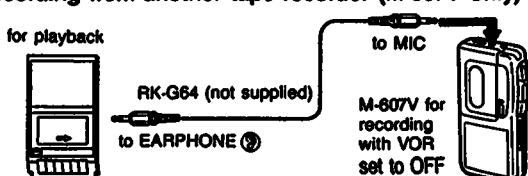
After advancing or rewinding the tape until its end, be sure to press the ▶■ button to release the ◀◀CUE/▶▶REVIEW control.

Recording/Playback with the Connected Equipment

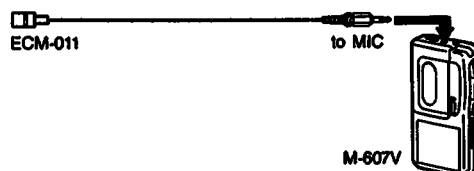
Dubbing onto another tape recorder



Recording from another tape recorder (M-607V only)



Recording with an external microphone (M-607V only)



- The built-in microphone will be automatically deactivated.
- When connecting an electret condenser microphone with "Plug-in power" system, the power is supplied from the MIC - PLUG IN POWER jack of the M-607V, and you do not have to insert a battery in the microphone.

Precautions

On power sources

- Operate the unit only on 3V DC.
For battery operation, use two size AA (R6) batteries.
For AC operation, use the AC power adaptor recommended for this unit. Do not use any other type.
- When the internal batteries are not to be used for a long period of time, remove them to avoid damage caused by battery leakage and subsequent corrosion.

On location

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Since a strong magnet is used for the speaker, keep personal credit cards using magnetic coding or spring-wound watches etc., away from the unit to prevent possible damage from the magnet.

On operation

- Use only the **(MICROCASSETTE)**™ with this unit.
- If the unit has not been used for a long period of time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.
- Should any solid object or liquid fall into the unit, remove the batteries or disconnect the AC power adaptor, and have the unit checked by qualified personnel before operating it any further.
- Two tape speeds can be selected for recording with the TAPE SPEED switch: 2.4cm or 1.2cm.
Match the playback speed to the recording speed.
Select the 2.4cm tape speed for recording if you intend to play back the recorded tape with another unit. Otherwise, the recorded sound will be distorted.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult the nearest Sony dealer.

Troubleshooting Guide

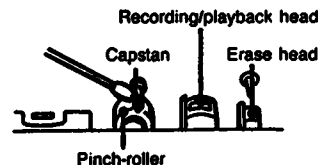
Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Trouble	Cause and/or solution
Cassette cannot be inserted.	• Cassette is inserted improperly. ⇒ See "Cassette Insertion". • The ◀ button is depressed.
The ● button cannot be depressed.	• No cassette in the cassette holder • The inserted cassette has had the tabs removed. ⇒ See "Cassette Insertion".
The ● or ◀ button cannot be locked.	• The tape is completely rewound towards the direction of the arrow on the cassette holder. • After the automatic shut-off, the PAUSE switch is on. ⇒ Slide the PAUSE switch in the opposite direction of the arrow.
The ● or ◀ button is locked, but playback/recording does not start.	• Slide the PAUSE switch in the opposite direction of the arrow. • Incorrect polarity of batteries • Weak batteries
No sound from the speaker	• The earphone is plugged in. • The VOL control is turned down completely.
Weak or distorted sound	Weak batteries
Sound drop-outs, loss of high frequencies or excessive noise	Dirty heads ⇒ See "Maintenance".
Tape speed is excessively fast or slow while playback.	Improper setting of the TAPE SPEED switch ⇒ Set it to the same tape speed as that used for recording.
Recording cannot be made or is unsatisfactory.	• Weak batteries • Dirty heads ⇒ See "Maintenance". • Improper setting of the VOR switch (M-507V/607V only) ⇒ Set it to "H" or "OFF".
Unsatisfactory erasing	Dirty erase head ⇒ See "Maintenance".
Tape speed is faster than the normal playback speed.	Slide the FAST PB switch in the opposite direction of the arrow.

Maintenance

Cleaning the heads

Clean the tape heads after every 10 hours of use to enjoy optimum sound. Moisten a cotton swab or a soft cloth with alcohol and wipe the parts shown in the illustration.



Cleaning the casing

Clean the casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use alcohol, benzine or thinner as they may mar the finish.

Specifications

Tape	(MICROCASSETTE) ™ (normal position type)
Recording system	2-track 1-channel monaural
Speaker	Approx. 3.6 cm (1 7/16 inches) dia.
Tape speed	2.4 cm/s (1 1/16 ips), 1.2 cm/s (1 1/32 ips)
Frequency response	250 – 4,000 Hz (at 2.4cm position)
Input (M-607V only)	Microphone jack (mini-jack) (PLUG IN POWER) sensitivity 0.4 mV for 3 kilohms or lower impedance microphone
Output	Earphone jack (mini-jack) for 8 – 300 ohms earphone
Power output	160 mW (at 10 % harmonic distortion)
Battery life (recording)	Sony SUM-3 (NS): Approx. 6 hours Sony AM3 (N): Approx. 14 hours
Power requirements	3 V DC, two size AA (R6) batteries DC IN 3V jack accepts: • Sony AC-E30M AC power adaptor (not supplied) for use on 120 V AC, 60 Hz (for M-405/507V/607V) • Sony DCC-E130L car battery cord (not supplied) for use with 12 V car battery.
Dimensions	M-405/507V: Approx. 66 × 119.5 × 25.5 mm (w/h/d) (2 5/8 × 4 3/4 × 1 1/16 inches) incl. projecting parts and controls M-607V: Approx. 66 × 119.5 × 26.1 mm (w/h/d) (2 5/8 × 4 3/4 × 1 1/16 inches) incl. projecting parts and controls
Weight	M-405/507V: Approx. 155 g (5.5 oz.) incl. batteries M-607V: Approx. 160 g (5.6 oz.) incl. batteries
Accessory supplied	M-507V/607V: Handstrap (1)

Design and specifications subject to change without notice.

Optional accessories

Microcassette MC-30, MC-60, 3MC-60
Earphone ME-81, ME-L82
Connecting cord RK-G64 (mini-plug to mini-plug with attenuator)
Electret condenser microphone (M-607V only) ECM-011
AC power adaptor AC-E30M
Car battery cord DCC-E130L

Note on the AC power adaptor

Use only the AC-E30M AC power adaptor (not supplied).
Do not use any other AC power adaptor.



Polarity of the plug
(Unified polarity type)

SONY LIMITED WARRANTY

PERSONAL/PORTABLE AUDIO PRODUCTS

SONY CORPORATION OF AMERICA ("SONY") warrants this product against defects in material or workmanship, as follows.

1 For a period of 90 days from the date of retail purchase, SONY shall at its sole and absolute option either repair the defective product at no charge or replace the defective product with the same model or its equivalent model at no charge through a SONY SERVICE CENTER

To obtain warranty service during the initial 90-day period, you must take the product, or deliver the product prepaid, to one of the SONY SERVICE CENTERS located in the United States

2 After the initial 90 day period, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the date of retail purchase

Labor for removal and installation of these parts is available from your SONY authorized service facility or SONY SERVICE CENTER, at your expense

Proof of purchase in the form of a bill of sale or receipted invoice, which indicates that the product is within the warranty period, must be presented to obtain warranty service

This warranty does not cover cosmetic damage, and damage to any part of the product, including the antennae, which results from acts of God, accident, misuse, abuse, improper maintenance, or connection to an improper voltage supply

The warranty is valid only if the serial number appears on the product. This warranty is valid only in the United States of America

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership or within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state

Please refer to the list of SONY SERVICE CENTERS on the reverse side for the SONY SERVICE CENTER nearest you

For your convenience, Sony Corporation of America has established the Customer Information Center to supply you with product or service information.

Important: If returning product for service, please see reverse side of this card for your nearest Sony Service Center

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